

=> d his ful

(FILE 'HOME' ENTERED AT 12:57:36 ON 27 SEP 2005)

FILE 'REGISTRY' ENTERED AT 12:57:42 ON 27 SEP 2005

L1           STRUCTURE UPLOADED  
 L2           STRUCTURE UPLOADED  
 L3           2 SEA SSS SAM L2  
 L4           34 SEA SSS FUL L2  
 L5           34 SEA SUB=L4 SSS FUL L1

FILE 'HCAPLUS, CASREACT, USPATFULL, TOXCENTER, BEILSTEIN' ENTERED AT  
 12:59:52 ON 27 SEP 2005

L6           16 SEA PLU=ON L4  
 L7           16 SEA PLU=ON L5  
 L8           16 SEA PLU=ON L6 OR L7  
 L9           13 DUP REM L8 (3 DUPLICATES REMOVED)  
              ANSWERS '1-12' FROM FILE HCAPLUS  
              ANSWER '13' FROM FILE USPATFULL

FILE 'HCAPLUS, USPATFULL' ENTERED AT 13:00:47 ON 27 SEP 2005

L10          13 SEA PLU=ON L9  
 L11          11 SEA PLU=ON L10 AND (PD<20030116 OR PRD<20030116)  
 L\*\*\* DEL     0 L11 AND PRD=01182002  
 L12          2 SEA PLU=ON L11 AND PRD=20020118  
 L13          9 SEA PLU=ON L11 NOT L12  
              D L13 1-9 IBIB HITSTR

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file  
 provided by InfoChem.

STRUCTURE FILE UPDATES: 26 SEP 2005 HIGHEST RN 863963-04-6  
 DICTIONARY FILE UPDATES: 26 SEP 2005 HIGHEST RN 863963-04-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

\*\*\*\*\*  
 \*  
 \* The CA roles and document type information have been removed from \*  
 \* the IDE default display format and the ED field has been added, \*  
 \* effective March 20, 2005. A new display format, IDERL, is now \*  
 \* available and contains the CA role and document type information. \*  
 \*  
 \*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS  
 for details.

Experimental and calculated property data are now available. For more  
 information enter HELP PROP at an arrow prompt in the file or refer  
 to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

FILE HCAPLUS  
 FILE COVERS 1907 - 27 Sep 2005 VOL 143 ISS 14  
 FILE LAST UPDATED: 26 Sep 2005 (20050926/ED)

FILE CASREACT  
 FILE CONTENT: 1840 - 25 Sep 2005 VOL 143 ISS 13

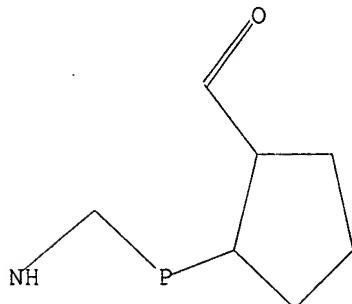
FILE USPATFULL  
 FILE COVERS 1971 TO PATENT PUBLICATION DATE: 22 Sep 2005 (20050922/PD)  
 FILE LAST UPDATED: 22 Sep 2005 (20050922/ED)  
 CA INDEXING IS CURRENT THROUGH 22 Sep 2005 (20050922/UPCA)  
 ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 22 Sep 2005 (20050922/PD)  
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2005

FILE TOXCENTER  
 FILE COVERS 1907 TO 27 Sep 2005 (20050927/ED)

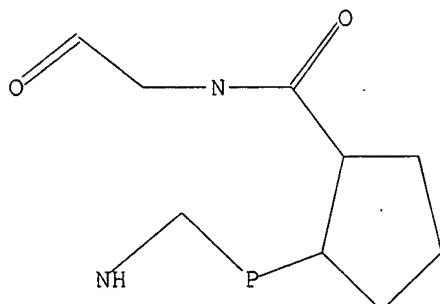
FILE BEILSTEIN  
 FILE RELOADED ON OCTOBER 20, 2002  
 FILE LAST UPDATED ON JUNE 29, 2005  
 FILE COVERS 1771 TO 2005.

=> d que sta

L1 STR



Structure attributes must be viewed using STN Express query preparation.  
 L2 STR



Structure attributes must be viewed using STN Express query preparation.  
 L4 34 SEA FILE=REGISTRY SSS FUL L2  
 L5 34 SEA FILE=REGISTRY SUB=L4 SSS FUL L1  
 L6 16 SEA L4  
 L7 16 SEA L5  
 L8 16 SEA L6 OR L7

L9           13 DUP REM L8 (3 DUPLICATES REMOVED)  
L10        13 SEA L9  
L11       11 SEA L10 AND (PD<20030116 OR PRD<20030116)  
L12        2 SEA L11 AND PRD=20020118  
L13        9 SEA L11 NOT L12

=> d his ful

(FILE 'HOME' ENTERED AT 12:26:17 ON 27 SEP 2005)

FILE 'REGISTRY' ENTERED AT 12:26:39 ON 27 SEP 2005

L1           STRUCTURE uploaded  
      D QUE  
L2           1 SEA SSS SAM L1  
L3           15 SEA SSS FUL L1

FILE 'HCAPLUS, USPATFULL, TOXCENTER, BEILSTEIN' ENTERED AT 12:28:21 ON 27 SEP 2005

L4           6 SEA PLU=ON L3  
L5           6 DUP REM L4 (0 DUPLICATES REMOVED)  
            ANSWERS '1-5' FROM FILE HCAPLUS  
            ANSWER '6' FROM FILE USPATFULL

FILE 'REGISTRY' ENTERED AT 12:28:49 ON 27 SEP 2005

L6           SEL PLU=ON L3 1- CHEM :       16 TERMS

FILE 'HCAPLUS, USPATFULL, TOXCENTER, BEILSTEIN' ENTERED AT 12:28:51 ON 27 SEP 2005

L7           5 SEA PLU=ON L6  
L8           5 DUP REM L7 (0 DUPLICATES REMOVED)  
            ANSWERS '1-5' FROM FILE HCAPLUS  
L9           6 SEA PLU=ON L5 OR L8  
            E L5  
L10          6 DUP REM L9 (0 DUPLICATES REMOVED)  
            ANSWERS '1-5' FROM FILE HCAPLUS  
            ANSWER '6' FROM FILE USPATFULL  
            D L10 1-6 IBIB HITSTR

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 26 SEP 2005 HIGHEST RN 863963-04-6

DICTIONARY FILE UPDATES: 26 SEP 2005 HIGHEST RN 863963-04-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*

\*     The CA roles and document type information have been removed from \*  
\*     the IDE default display format and the ED field has been added,    \*  
\*     effective March 20, 2005. A new display format, IDERL, is now    \*  
\*     available and contains the CA role and document type information. \*

\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer

to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

FILE HCAPLUS

FILE COVERS 1907 - 27 Sep 2005 VOL 143 ISS 14  
FILE LAST UPDATED: 26 Sep 2005 (20050926/ED)

FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 22 Sep 2005 (20050922/PD)  
FILE LAST UPDATED: 22 Sep 2005 (20050922/ED)  
CA INDEXING IS CURRENT THROUGH 22 Sep 2005 (20050922/UPCA)  
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 22 Sep 2005 (20050922/PD)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2005

FILE TOXCENTER

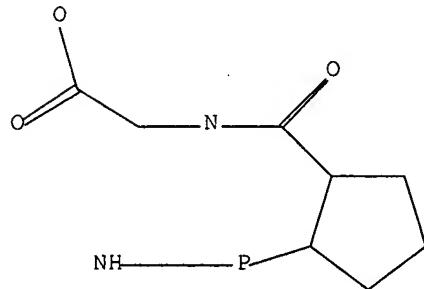
FILE COVERS 1907 TO 27 Sep 2005 (20050927/ED)

FILE BEILSTEIN

FILE RELOADED ON OCTOBER 20, 2002  
FILE LAST UPDATED ON JUNE 29, 2005  
FILE COVERS 1771 TO 2005.

=> d que sta

L1 STR



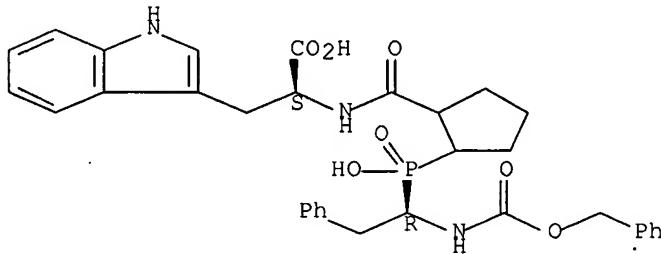
Structure attributes must be viewed using STN Express query preparation.

L3 15 SEA FILE=REGISTRY SSS FUL L1  
L4 6 SEA L3  
L5 6 DUP REM L4 (0 DUPLICATES REMOVED)  
L6 SEL PLU=ON L3 1- CHEM : 16 TERMS  
L7 5 SEA L6  
L8 5 DUP REM L7 (0 DUPLICATES REMOVED)  
L9 6 SEA L5 OR L8  
L10 6 DUP REM L9 (0 DUPLICATES REMOVED)

=> d 110 1-6 ibib hitstr

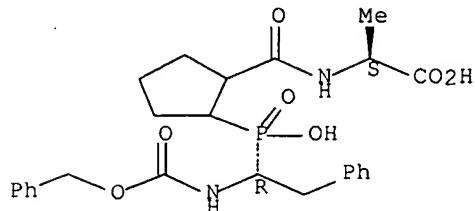
L10 ANSWER 1 OF 6 HCPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2004:445915 HCPLUS Full-text  
DOCUMENT NUMBER: 141:116450  
TITLE: Structural Determinants of RXPA380, a Potent and  
Highly Selective Inhibitor of the Angiotensin-  
Converting Enzyme C-Domain  
AUTHOR(S): Georgiadis, Dimitris; Cuniasse, Philippe; Cotton,  
Joeel; Yiotaikis, Athanasios; Dive, Vincent  
CORPORATE SOURCE: Departement d'Ingénierie et d'Etudes des Protéines,  
CEA, Gif sur Yvette, 91191, Fr.  
SOURCE: Biochemistry (2004), 43(25), 8048-8054  
CODEN: BICHAW; ISSN: 0006-2960  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
IT 564479-79-4P 564479-80-7P 564479-81-8P  
564479-83-0P 564479-84-1P 724750-81-6P  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU  
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
(Uses)  
(preparation and structure-activity relationship of RXPA380 analogs, as  
potent and highly selective inhibitors of angiotensin-converting enzyme  
C-domain)  
RN 564479-79-4 HCPLUS  
CN L-Tryptophan, N-[[2-[hydroxy[(1R)-2-phenyl-1-[[phenylmethoxy]carbonyl]ami-  
no]ethyl]phosphinyl]cyclopentyl]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



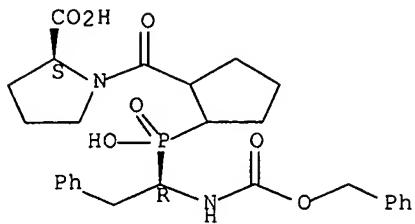
RN 564479-80-7 HCPLUS  
CN L-Alanine, N-[[2-[hydroxy[(1R)-2-phenyl-1-[[phenylmethoxy]carbonyl]amino]  
ethyl]phosphinyl]cyclopentyl]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 564479-81-8 HCPLUS  
CN L-Proline, 1-[[2-[hydroxy[(1R)-2-phenyl-1-[[phenylmethoxy]carbonyl]amino]  
ethyl]phosphinyl]cyclopentyl]carbonyl]- (9CI) (CA INDEX NAME)

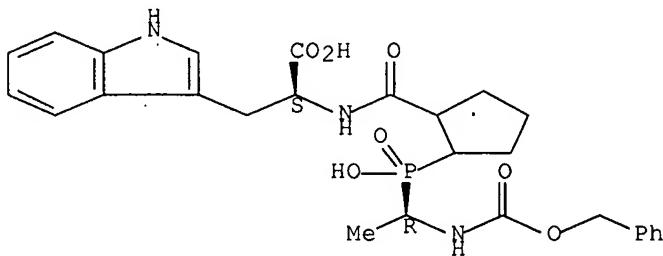
Absolute stereochemistry.



RN 564479-83-0 HCPLUS

CN L-Tryptophan, N-[2-[hydroxy[(1R)-1-[[[(phenylmethoxy)carbonyl]amino]ethyl]phosphinyl]cyclopentyl]carbonyl]- (9CI) (CA INDEX NAME)

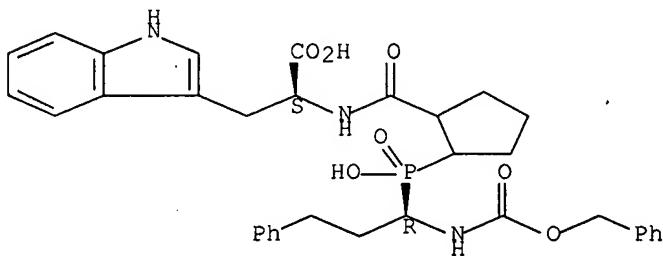
Absolute stereochemistry.



RN 564479-84-1 HCPLUS

CN L-Tryptophan, N-[2-[hydroxy[(1R)-3-phenyl-1-[[[(phenylmethoxy)carbonyl]amino]propyl]phosphinyl]cyclopentyl]carbonyl]- (9CI) (CA INDEX NAME)

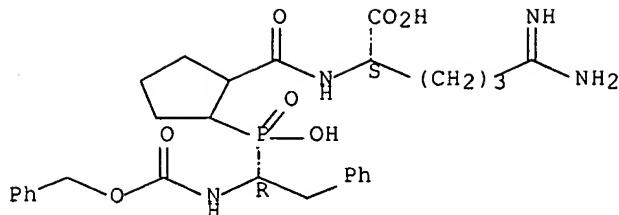
Absolute stereochemistry.



RN 724750-81-6 HCPLUS

CN L-Lysine, N2-[2-[hydroxy[(1R)-2-phenyl-1-[[[(phenylmethoxy)carbonyl]amino]ethyl]phosphinyl]cyclopentyl]carbonyl]-6-imino- (9CI) (CA INDEX NAME)

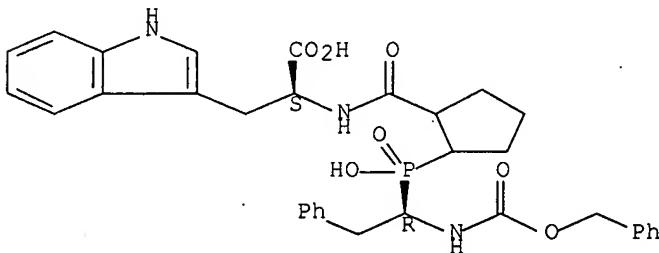
Absolute stereochemistry.



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 6 HCPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2004:1121942 HCPLUS Full-text  
 DOCUMENT NUMBER: 142:169619  
 TITLE: Selective Angiotensin-Converting Enzyme C-Domain Inhibition Is Sufficient to Prevent Angiotensin I-Induced Vasoconstriction  
 AUTHOR(S): van Esch, Joep H. M.; Tom, Beril; Dive, Vincent; Batenburg, Wendy W.; Georgiadis, Dimitris; Yiotakis, Athanasios; van Gool, Jeanette M. G.; de Bruijn, Rene J. A.; de Vries, Rene; Danser, A. H. Jan  
 CORPORATE SOURCE: Department of Pharmacology and Internal Medicine, Erasmus MC, Rotterdam, Neth.  
 SOURCE: Hypertension (2004), Volume Date 2005, 45(1), 120-125  
 CODEN: HPRTDN; ISSN: 0194-911X  
 PUBLISHER: Lippincott Williams & Wilkins  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 564479-79-4, RXPA 380  
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (selective angiotensin-converting enzyme C-domain inhibition is sufficient to prevent angiotensin I-induced vasoconstriction)  
 RN 564479-79-4 HCPLUS  
 CN L-Tryptophan, N-[{2-[hydroxy[(1R)-2-phenyl-1-[(phenylmethoxy)carbonyl]amino]ethyl}phosphinyl]cyclopentyl]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 6 HCPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2003:573238 HCPLUS Full-text  
 DOCUMENT NUMBER: 139:117690  
 TITLE: Preparation of phosphinic pseudo-peptide derivatives which selectively inhibit the C-terminal active site of angiotensin-converting enzyme (ACE)

INVENTOR(S): Cotton, Joel; Georgiadis, Dimitri; Dive, Vincent  
 PATENT ASSIGNEE(S): Commissariat A L'energie Atomique, Fr.  
 SOURCE: Fr. Demande, 48 pp.  
 CODEN: FRXXBL  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2834989	A1	20030725	FR 2002-599	20020118
FR 2834989	B1	20050520		
CA 2473047	AA	20030731	CA 2003-2473047	20030116
WO 2003062247	A2	20030731	WO 2003-FR129	20030116
WO 2003062247	A3	20040311		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1468003	A2	20041020	EP 2003-717341	20030116
EP 1468003	B1	20050824		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
JP 2005522420	T2	20050728	JP 2003-562124	20030116
US 2005070505	A1	20050331	US 2004-500891	20040707
PRIORITY APPLN. INFO.:			FR 2002-599	A 20020118
			WO 2003-FR129	W 20030116

OTHER SOURCE(S): MARPAT 139:117690

IT 564479-79-4P 564479-80-7P 564479-81-8P  
564479-82-9P 564479-83-0P 564479-84-1P

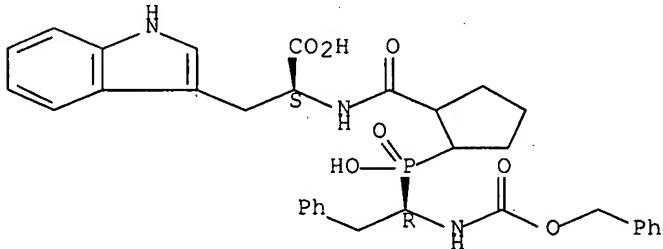
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of phosphinic pseudo-peptide derivs. as inhibitors of the C-terminal active site of angiotensin-converting enzyme (ACE))

RN 564479-79-4 HCPLUS

CN L-Tryptophan, N-[2-[hydroxy[(1R)-2-phenyl-1-[(phenylmethoxy)carbonyl]amino]ethyl]phosphinyl]cyclopentyl]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

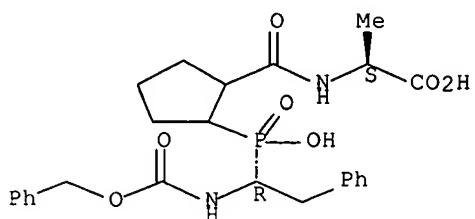


RN 564479-80-7 HCPLUS

CN L-Alanine, N-[2-[hydroxy[(1R)-2-phenyl-1-[(phenylmethoxy)carbonyl]amino]

ethyl]phosphinyl)cyclopentyl]carbonyl]- (9CI) (CA INDEX NAME)

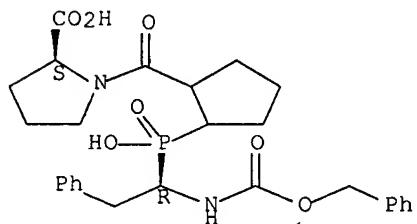
Absolute stereochemistry.



RN 564479-81-8 HCPLUS

CN L-Proline, 1-[[2-[hydroxy[(1R)-2-phenyl-1-[(phenylmethoxy)carbonyl]amino]ethyl]phosphinyl)cyclopentyl]carbonyl]- (9CI) (CA INDEX NAME)

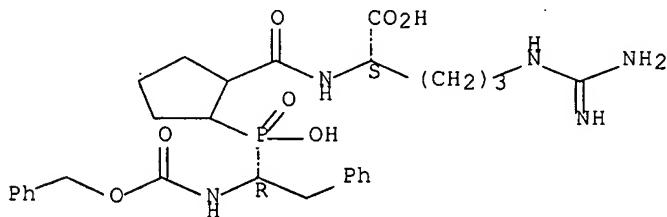
Absolute stereochemistry.



RN 564479-82-9 HCPLUS

CN L-Arginine, N2-[{2-[hydroxy[(1R)-2-phenyl-1-[(phenylmethoxy)carbonyl]amino]ethyl]phosphinyl}cyclopentyl]carbonyl]- (9CI) (CA INDEX NAME)

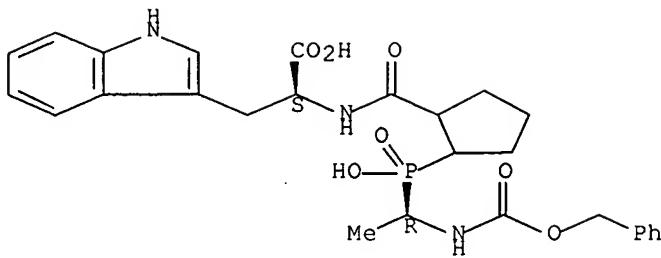
Absolute stereochemistry.



RN 564479-83-0 HCPLUS

CN L-Tryptophan, N-[{2-[hydroxy[(1R)-1-[(phenylmethoxy)carbonyl]amino]ethyl]phosphinyl}cyclopentyl]carbonyl]- (9CI) (CA INDEX NAME)

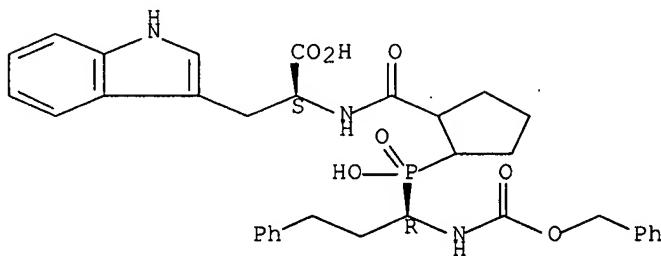
Absolute stereochemistry.



RN 564479-84-1 HCPLUS

CN L-Tryptophan, N-[2-[hydroxy[(1R)-3-phenyl-1-[(phenylmethoxy)carbonyl]amino]propyl]phosphinyl]cyclopentyl]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 6 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:547435 HCPLUS Full-text

DOCUMENT NUMBER: 139:346065

TITLE: Roles of the two active sites of somatic angiotensin-converting enzyme in cleavage of angiotensin I and bradykinin

AUTHOR(S): Georgiadis, Dimitris; Beau, Fabrice; Czarny, Bertrand; Cotton, Joel; Yiotaikis, Athanasios; Dive, Vincent

CORPORATE SOURCE: Department of Chemistry, Laboratory of Organic Chemistry, University of Athens, Athens, Greece

SOURCE: Circulation Research (2003), 93(2), 148-154

CODEN: CIRUAL; ISSN: 0009-7330

PUBLISHER: Lippincott Williams & Wilkins

DOCUMENT TYPE: Journal

LANGUAGE: English

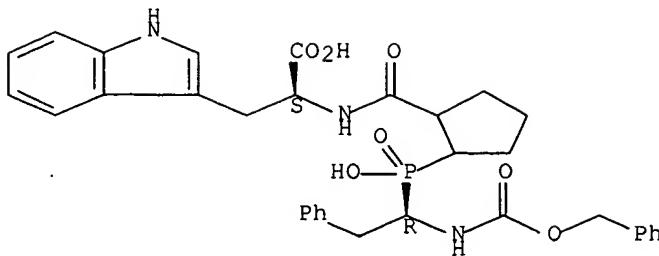
IT 564479-79-4, RXPA 380

RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); BIOL (Biological study)  
 (roles of two active sites of somatic angiotensin-converting enzyme in cleavage of angiotensin I and bradykinin as evaluated in mice in relation to insights from selective inhibitors)

RN 564479-79-4 HCPLUS

CN L-Tryptophan, N-[2-[hydroxy[(1R)-2-phenyl-1-[(phenylmethoxy)carbonyl]amino]ethyl]phosphinyl]cyclopentyl]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

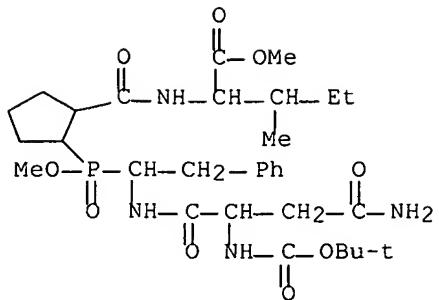


REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 6 HCPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1990:612686 HCPLUS Full-text  
 DOCUMENT NUMBER: 113:212686  
 TITLE: Peptide analogs as human immunodeficiency virus (HIV) protease inhibitors  
 INVENTOR(S): Hanko, Rudolf H.; Scangos, George A.; Yoo-Warren, Heeja; Ramabhadran, Triprayar V.; Paessens, Arnold; Henning, Rolf; Tamburini, Paul Perry; Hoppe, Dieter; Hansen, Jutta; Rabe, Klaus  
 PATENT ASSIGNEE(S): Molecular Therapeutics, Inc., USA  
 SOURCE: Eur. Pat. Appl., 73 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

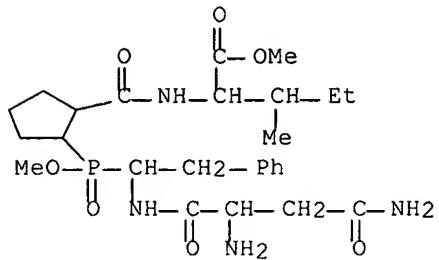
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 361341	A2	19900404	EP 1989-117616	19890923
EP 361341	A3	19910703		
R: AT, BE, CH, FI 8904541 AU 8942308 AU 633017 DK 8904760 NO 8903834 ZA 8907338 JP 02191243	DE, ES, FR, GB, GR, IT, LI, LU, NL, SE A A1 B2 A A A A2	19900329 19900816 19930121 19900329 19900329 19900725 19900727	FI 1989-4541 AU 1989-42308 DK 1989-4760 NO 1989-3834 ZA 1989-7338 JP 1989-253683 US 1988-250472 US 1989-386194	19890926 19890926 19890927 19890927 19890927 19890928 A 19880928 A 19890801

PRIORITY APPLN. INFO.: MARPAT 113:212686  
 IT 130371-94-7P 130371-96-9P 130371-98-1P  
 130371-99-2P 130372-01-9P 130372-02-0P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation of, as HIV protease inhibitor)  
 RN 130371-94-7 HCPLUS  
 CN 2-Oxa-5,8-diaza-3-phosphonan-9-oic acid, 7-(2-amino-2-oxoethyl)-3-[2-[[[1-(methoxycarbonyl)-2-methylbutyl]amino]carbonyl]cyclopentyl]-6-oxo-4-(phenylmethyl)-, 1,1-dimethylethyl ester, 3-oxide (9CI) (CA INDEX NAME)



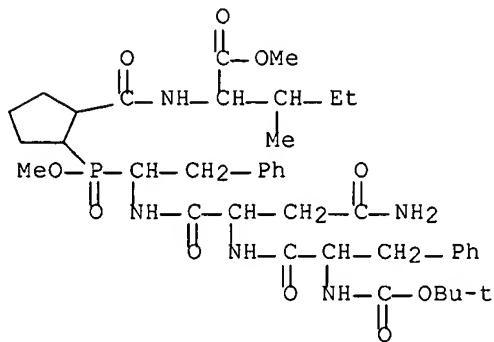
RN 130371-96-9 HCPLUS

CN L-Isoleucine, N-[{2-[{1-[(2,4-diamino-1,4-dioxobutyl)amino]-2-phenylethyl}methoxyphosphinyl]cyclopentyl}carbonyl]-, methyl ester (9CI)  
(CA INDEX NAME)



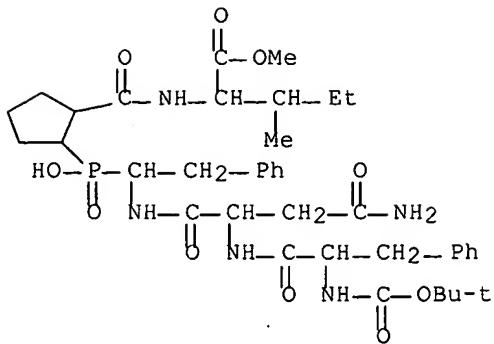
RN 130371-98-1 HCPLUS

CN L-Aspartamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N1-[1-methoxy[2-[[1-(methoxycarbonyl)-2-methylbutyl]amino]carbonyl]cyclopentyl]phosphinyl]-2-phenylethyl- (9CI) (CA INDEX NAME)

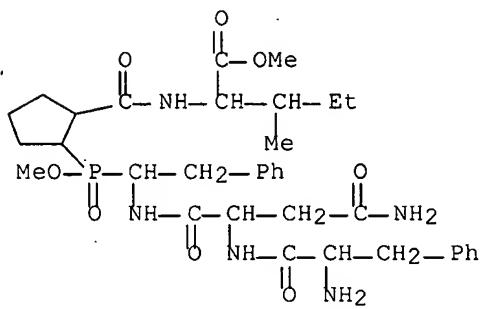


RN 130371-99-2 HCPLUS

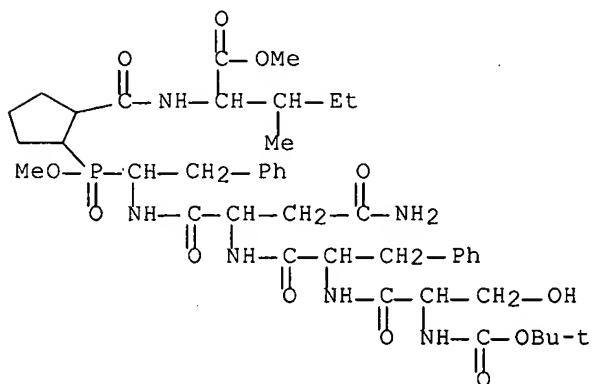
CN L-Aspartamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N1-[1-hydroxy[2-[[1-(methoxycarbonyl)-2-methylbutyl]amino]carbonyl]cyclopentyl]phosphinyl]-2-phenylethyl- (9CI) (CA INDEX NAME)



RN 130372-01-9 HCPLUS  
 CN L-Aspartamide, L-phenylalanyl-N1-[1-[methoxy[2-[[1-(methoxycarbonyl)-2-methylbutyl]amino]carbonyl]cyclopentyl]phosphinyl]-2-phenylethyl]- (9CI)  
 (CA INDEX NAME)

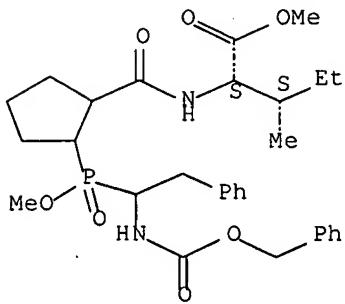


RN 130372-02-0 HCPLUS  
 CN L-Aspartamide, N-[(1,1-dimethylethoxy)carbonyl]-L-seryl-L-phenylalanyl-N1-[1-[methoxy[2-[[1-(methoxycarbonyl)-2-methylbutyl]amino]carbonyl]cyclopentyl]phosphinyl]-2-phenylethyl]- (9CI) (CA INDEX NAME)



IT 130372-29-1P 130372-32-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as HIV protease inhibitor (intermediate))  
 RN 130372-29-1 HCPLUS  
 CN L-Isoleucine, N-[[2-[methoxy[2-phenyl-1-[(phenylmethoxy)carbonyl]amino]ethyl]phosphinyl]cyclopentyl]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

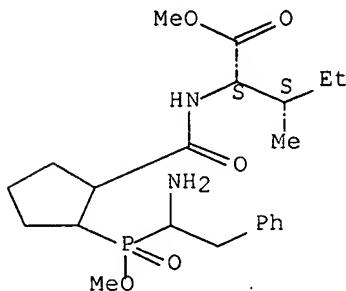
\*Absolute stereochemistry.



RN 130372-32-6 HCPLUS

CN L-Isoleucine, N-[[2-[(1-amino-2-phenylethyl)methoxyphosphinyl]cyclopentyl] carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L10 ANSWER 6 OF 6 USPATFULL on STN

ACCESSION NUMBER: 2005:82057 USPATFULL Full-text

TITLE: Phosphinic pseudo-peptide derivatives for the selective inhibition of the active c-terminal site of angiotensin converting enzyme (I) (ace)

INVENTOR(S): Cotton, Joel, Orsay, FRANCE  
Georgiadis, Dimitri, Athens, GREECE  
Dive, Vincent, Palaiseau, FRANCE

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005070505	A1	20050331
APPLICATION INFO.:	US 2004-500891	A1	20040707 (10)
	WO 2003-FR129		20030116

	NUMBER	DATE
PRIORITY INFORMATION:	FR 2002-599	20020118
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET, ALEXANDRIA, VA, 22314	
NUMBER OF CLAIMS:	24	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	948	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 564479-79-4P 564479-80-7P 564479-81-8P

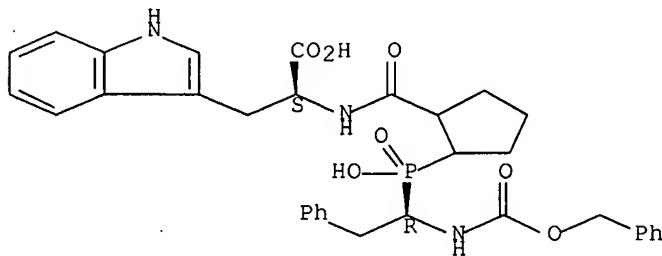
564479-82-9P 564479-83-0P 564479-84-1P

(preparation of phosphinic pseudo-peptide derivs. as inhibitors of the  
C-terminal active site of angiotensin-converting enzyme (ACE))

RN 564479-79-4 USPATFULL

CN L-Tryptophan, N-[{2-[hydroxy[(1R)-2-phenyl-1-[(phenylmethoxy)carbonyl]amino]ethyl]phosphinyl}cyclopentyl]carbonyl]- (9CI) (CA INDEX NAME)

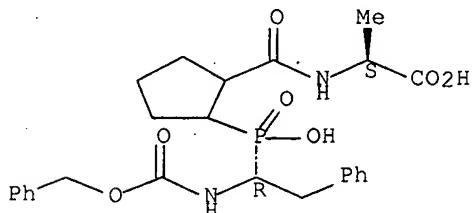
Absolute stereochemistry.



RN 564479-80-7 USPATFULL

CN L-Alanine, N-[{2-[hydroxy[(1R)-2-phenyl-1-[(phenylmethoxy)carbonyl]amino]ethyl]phosphinyl}cyclopentyl]carbonyl]- (9CI) (CA INDEX NAME)

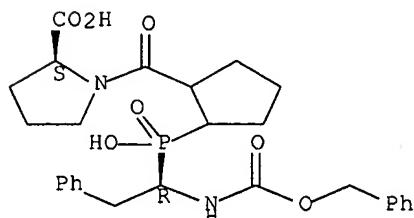
Absolute stereochemistry.



RN 564479-81-8 USPATFULL

CN L-Proline, 1-[{2-[hydroxy[(1R)-2-phenyl-1-[(phenylmethoxy)carbonyl]amino]ethyl]phosphinyl}cyclopentyl]carbonyl]- (9CI) (CA INDEX NAME)

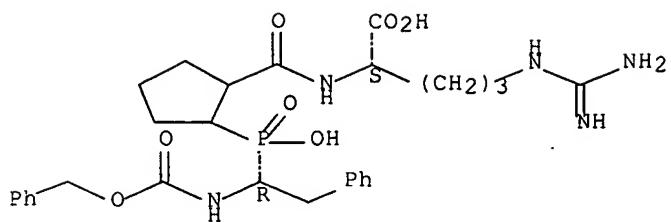
Absolute stereochemistry.



RN 564479-82-9 USPATFULL

CN L-Arginine, N2-[{2-[hydroxy[(1R)-2-phenyl-1-[(phenylmethoxy)carbonyl]amino]ethyl]phosphinyl}cyclopentyl]carbonyl]- (9CI) (CA INDEX NAME)

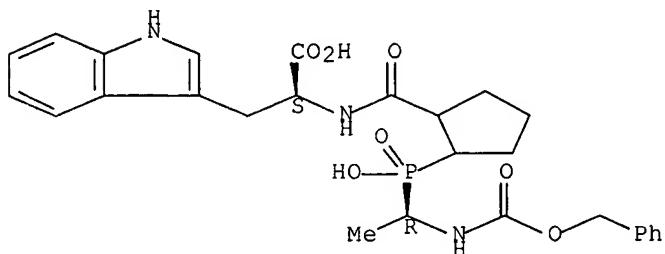
Absolute stereochemistry.



RN 564479-83-0 USPATFULL

CN L-Tryptophan, N-[{2-[hydroxy[(1R)-1-[(phenylmethoxy)carbonyl]amino]ethyl}phosphinyl]cyclopentyl]carbonyl- (9CI) (CA INDEX NAME)

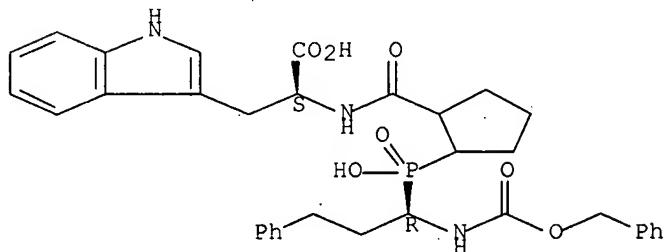
Absolute stereochemistry.



RN 564479-84-1 USPATFULL

CN L-Tryptophan, N-[{2-[hydroxy[(1R)-3-phenyl-1-[(phenylmethoxy)carbonyl]amino]propyl}phosphinyl]cyclopentyl]carbonyl- (9CI) (CA INDEX NAME)

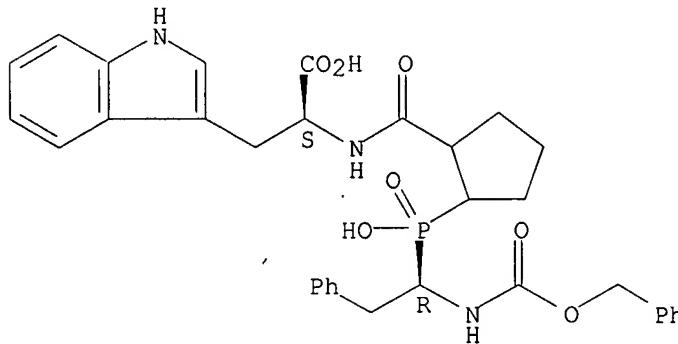
Absolute stereochemistry.



=> d 113 1-9 ibib hitstr

L13 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2003:547435 HCAPLUS  
 DOCUMENT NUMBER: 139:346065  
 TITLE: Roles of the two active sites of somatic angiotensin-converting enzyme in cleavage of angiotensin I and bradykinin  
 AUTHOR(S): Georgiadis, Dimitris; Beau, Fabrice; Czarny, Bertrand; Cotton, Joel; Yiotakis, Athanasios; Dive, Vincent  
 CORPORATE SOURCE: Department of Chemistry, Laboratory of Organic Chemistry, University of Athens, Athens, Greece  
 SOURCE: Circulation Research (2003), 93(2), 148-154  
 CODEN: CIRUAL; ISSN: 0009-7330  
 PUBLISHER: Lippincott Williams & Wilkins  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 564479-79-4, RXPA 380  
 RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); BIOL (Biological study)  
 (roles of two active sites of somatic angiotensin-converting enzyme in cleavage of angiotensin I and bradykinin as evaluated in mice in relation to insights from selective inhibitors)  
 RN 564479-79-4 HCAPLUS  
 CN L-Tryptophan, N-[(2-[hydroxy[(1R)-2-phenyl-1-[[[(phenylmethoxy)carbonyl]amino]ethyl]phosphinyl]cyclopentyl]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2001:615126 HCAPLUS  
 DOCUMENT NUMBER: 135:358118  
 TITLE: Synthesis of phosphinic alanyl-proline surrogates Alaw(PO2R-CH)Pro as potential inhibitors of the human cyclophilin hCyp-18  
 AUTHOR(S): Demange, Luc; Dugave, Christophe  
 CORPORATE SOURCE: Departement d'Ingenierie et d'Etudes des Proteines (DIEP), CEA/Saclay, Gif-sur-Yvette, Fr.  
 SOURCE: Tetrahedron Letters (2001), 42(36), 6295-6297  
 CODEN: TELEAY; ISSN: 0040-4039  
 PUBLISHER: Elsevier Science Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

OTHER SOURCE(S): CASREACT 135:358118

IT 372987-88-7P 372987-90-1P

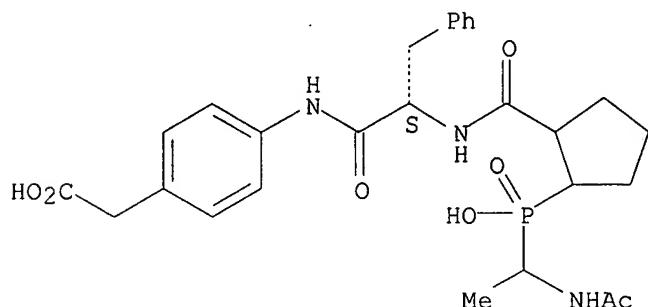
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and biol. activity of phosphinic alanyl-proline surrogates as potential inhibitors of the human cyclophilin hCyp-18)

RN 372987-88-7 HCPLUS

CN Benzeneacetic acid, 4-[(2S)-2-[[[2-[[1-(acetylamino)ethyl]hydroxyphosphinyl]cyclopentyl]carbonyl]amino]-1-oxo-3-phenylpropyl]amino]- (9CI) (CA INDEX NAME)

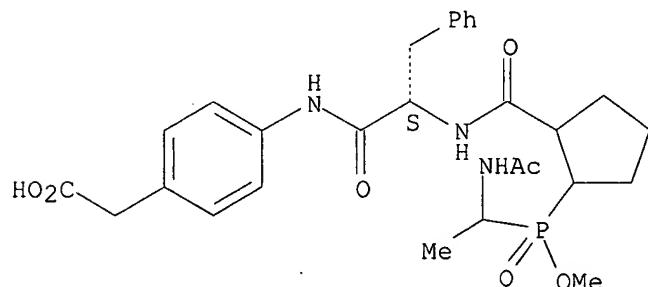
Absolute stereochemistry.



RN 372987-90-1 HCPLUS

CN Benzeneacetic acid, 4-[(2S)-2-[[[2-[[1-(acetylamino)ethyl]methoxyphosphinyl]cyclopentyl]carbonyl]amino]-1-oxo-3-phenylpropyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 372987-82-1P 372987-84-3P 372987-86-5P

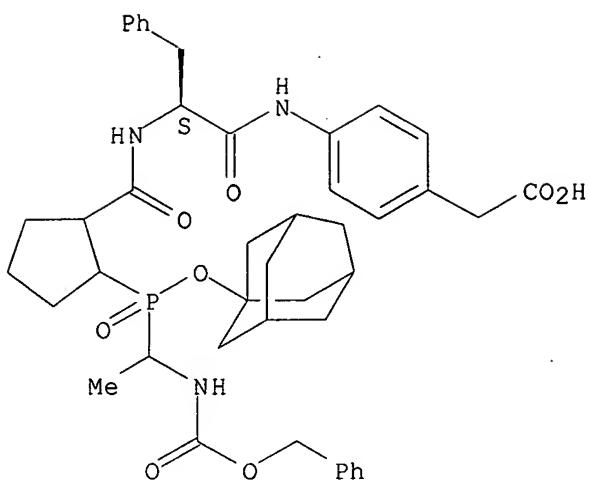
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and biol. activity of phosphinic alanyl-proline surrogates as potential inhibitors of the human cyclophilin hCyp-18)

RN 372987-82-1 HCPLUS

CN Benzeneacetic acid, 4-[(2S)-1-oxo-3-phenyl-2-[[[2-[[1-[(phenylmethoxy)carbonyl]amino]ethyl](tricyclo[3.3.1.13,7]dec-1-yloxy)phosphinyl]cyclopentyl]carbonyl]amino]propyl]amino]- (9CI) (CA INDEX NAME)

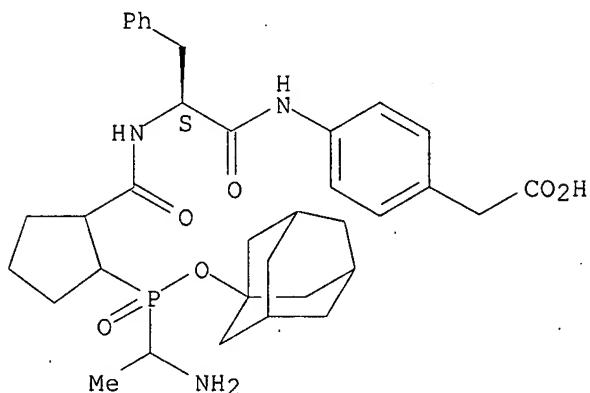
Absolute stereochemistry.



RN 372987-84-3 HCPLUS

CN Benzeneacetic acid, 4-[[[(2S)-2-[[[2-[(1-aminoethyl)(tricyclo[3.3.1.13,7]deca-1-yloxy)phosphinyl]cyclopentyl]carbonyl]amino]-1-oxo-3-phenylpropyl]amino]- (9CI) (CA INDEX NAME)

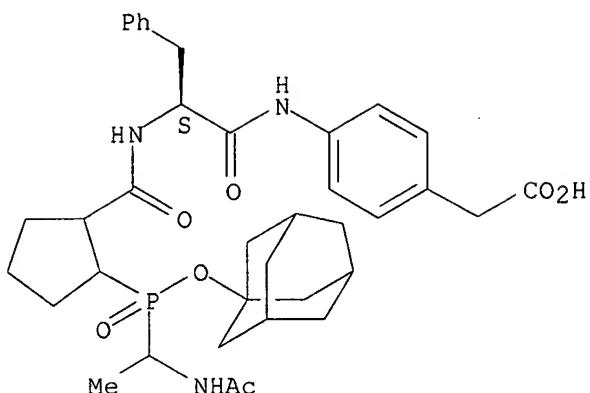
Absolute stereochemistry.



RN 372987-86-5 HCPLUS

CN Benzeneacetic acid, 4-[[[(2S)-2-[[[2-[[1-(acetylamino)ethyl](tricyclo[3.3.1.13,7]deca-1-yloxy)phosphinyl]cyclopentyl]carbonyl]amino]-1-oxo-3-phenylpropyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 9 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:792014 HCPLUS

DOCUMENT NUMBER: 128:60440

TITLE: Comparison of different immunoenzymic methods for the determination of the fine specificity and affinity constants of polyclonal antibodies against pseudopeptide haptens

AUTHOR(S): Fournout, S.; Jouin, P.; Pau, B.; Hanin, V.

CORPORATE SOURCE: Immunoanalyse et Innovation en Biologie Clinique, CNRS UMR 9921, Faculte de Pharmacie, Montpellier, Fr.

SOURCE: Immunological Investigations (1997), 26(5-7), 549-559

CODEN: IMINEJ; ISSN: 0882-0139

PUBLISHER: Marcel Dekker, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 189227-54-1

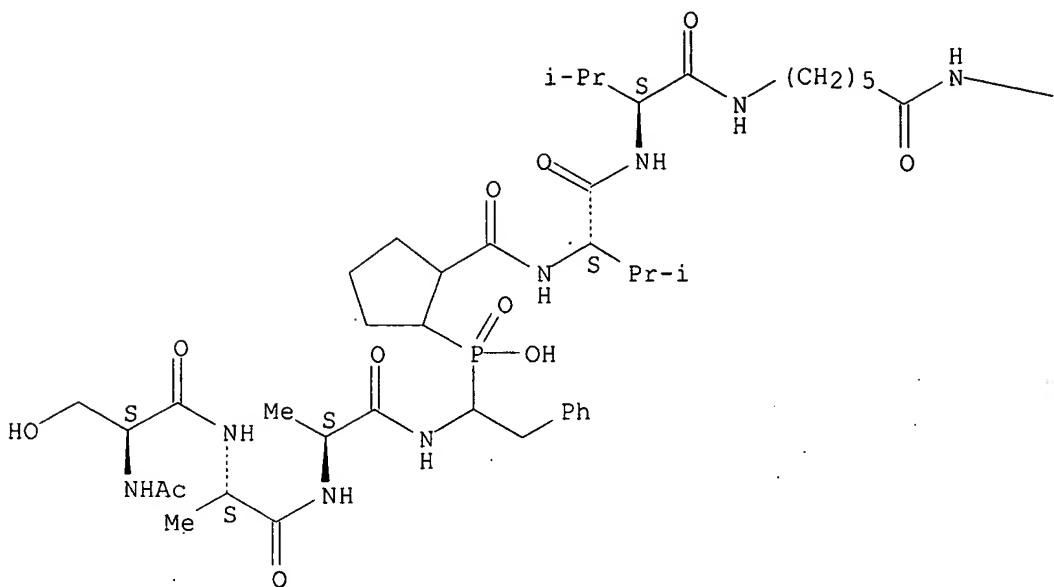
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(immunoenzymic methods comparison for determination of fine specificity and affinity consts. of polyclonal antibodies against pseudopeptide haptens)

RN 189227-54-1 HCPLUS

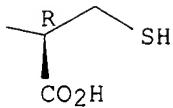
CN L-Cysteine, N-acetyl-L-seryl-L-alanyl-L-alanyl-2-[(1-amino-2-phenylethyl)hydroxyphosphinyl]cyclopentanecarbonyl-L-valyl-L-valyl-6-amino hexanoyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 4 OF 9 HCPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1997:215813 HCPLUS  
 DOCUMENT NUMBER: 126:303001  
 TITLE: Development and Standardization of an Immuno-Quantified Solid Phase Assay for HIV-1 Aspartyl Protease Activity and Its Application to the Evaluation of Inhibitors  
 AUTHOR(S): Fournout, S.; Roquet, F.; Salhi, S. L.; Seyer, R.; Valverde, V.; Masson, J. M.; Jouin, P.; Pau, B.; Nicolas, M.; Hanin, V.  
 CORPORATE SOURCE: Laboratoire d'Immunoanalyse et Innovation en Biologie Clinique, Faculte de Pharmacie, Montpellier, 34060, Fr.  
 SOURCE: Analytical Chemistry (1997), 69(9), 1746-1752  
 CODEN: ANCHAM; ISSN: 0003-2700  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 189227-54-1  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological

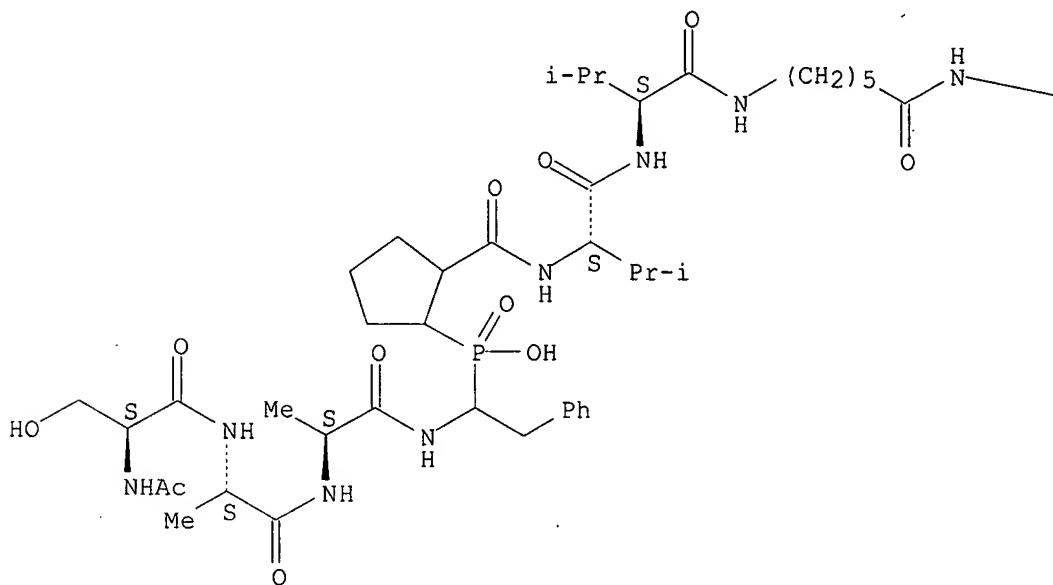
study, unclassified); PRP (Properties); BIOL (Biological study) (development and standardization of an immuno-quantified solid phase assay for HIV-1 aspartyl protease activity and its application to the evaluation of inhibitors)

RN 189227-54-1 HCPLUS

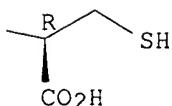
CN L-Cysteine, N-acetyl-L-seryl-L-alanyl-L-alanyl-2-[(1-amino-2-phenylethyl)hydroxyphosphinyl]cyclopentanecarbonyl-L-valyl-L-valyl-6-aminohexanoyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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PAGE 1-B



REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 5 OF 9 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1992:76343 HCPLUS

DOCUMENT NUMBER: 116:76343

TITLE: Method for treating fungal infection with an aspartic acid proteinase inhibitor

INVENTOR(S): Dreyer, Geoffrey Bainbridge; Frey, Carrie Lynn; Koltin, Yigal

PATENT ASSIGNEE(S): SmithKline Beecham Corp., USA

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

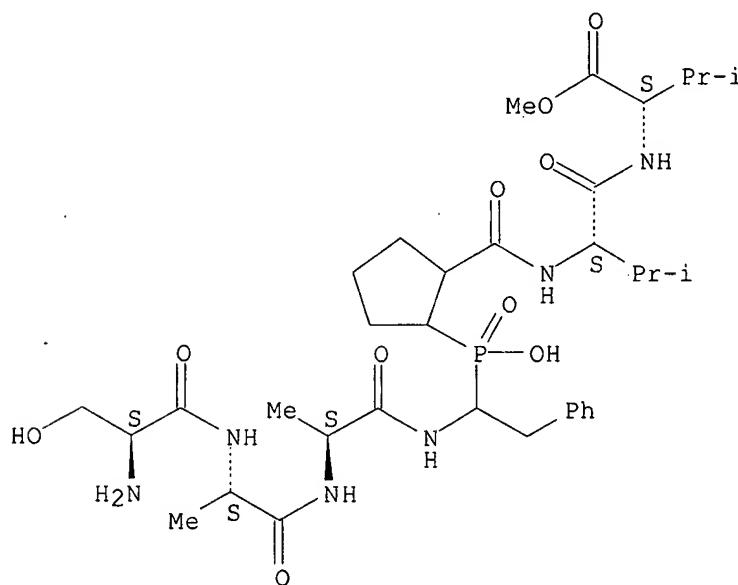
DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9115121	A1	19911017	WO 1991-US2145	19910328 <--
W: AU, CA, JP, KR, US RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
AU 9176739	A1	19911030	AU 1991-76739 US 1990-502149 WO 1991-US2145	19910328 <-- A 19900330 <-- A 19910328 <--
PRIORITY APPLN. INFO.:				

OTHER SOURCE(S): MARPAT 116:76343

IT 126333-35-5  
 RL: BIOL (Biological study)  
 (antifungal agent)  
 RN 126333-35-5 HCPLUS  
 CN L-Valine, N-[N-[[2-[hydroxy[2-phenyl-1-[[N-(N-L-seryl-L-alanyl)-L-alanyl]amino]ethyl]phosphinyl]cyclopentyl]carbonyl]-L-valyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 6 OF 9 HCPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1991:240604 HCPLUS  
 DOCUMENT NUMBER: 114:240604  
 TITLE: Preparation of retroviral protease binding peptides  
 INVENTOR(S): Dreyer, Geoffrey Bainbridge; Huffman, William Francis;  
 Meek, Thomas Downing; Metcalf, Brian Walter; Moore,  
 Michael Lee  
 PATENT ASSIGNEE(S): SmithKline Beckman Corp., USA  
 SOURCE: PCT Int. Appl., 214 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9000399	A1	19900125	WO 1989-US2972	19890707 <--
W: AU, DK, FI, HU, JP, KR, NO				
AU 8939644	A1	19900205	AU 1989-39644	19890707 <--
ZA 8905174	A	19900328	ZA 1989-5174	19890707 <--
JP 03505875	T2	19911219	JP 1989-507665	19890707 <--
HU 58764	A2	19920330	HU 1989-4124	19890707 <--
DK 9100026	A	19910306	DK 1991-26	19910107 <--
NO 9100053	A	19910307	NO 1991-53	19910107 <--
NO 9200318	A	19910307	NO 1992-318	19920123 <--
NO 9200319	A	19910307	NO 1992-319	19920123 <--
PRIORITY APPLN. INFO.:			US 1988-216178	A 19880708 <--
			US 1989-321937	A 19890310 <--
			US 1989-374326	A 19890629 <--
			WO 1989-US2972	A 19890707 <--
			NO 1991-53	A1 19910107 <--

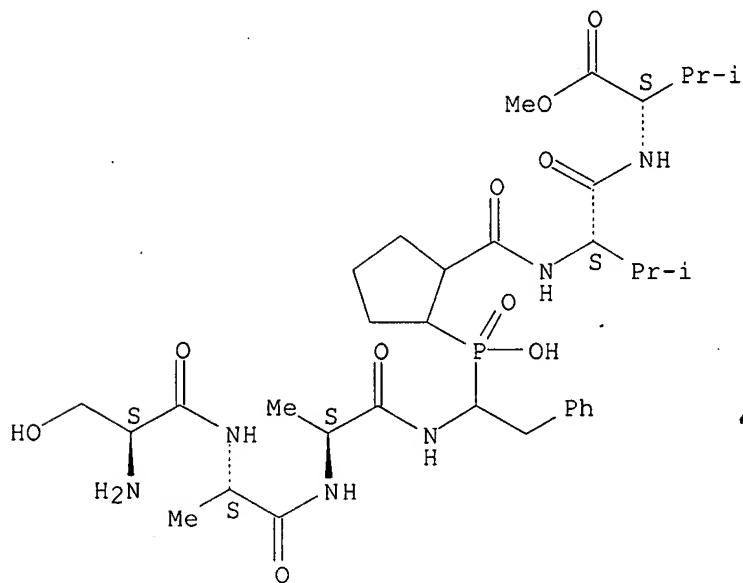
OTHER SOURCE(S): MARPAT 114:240604

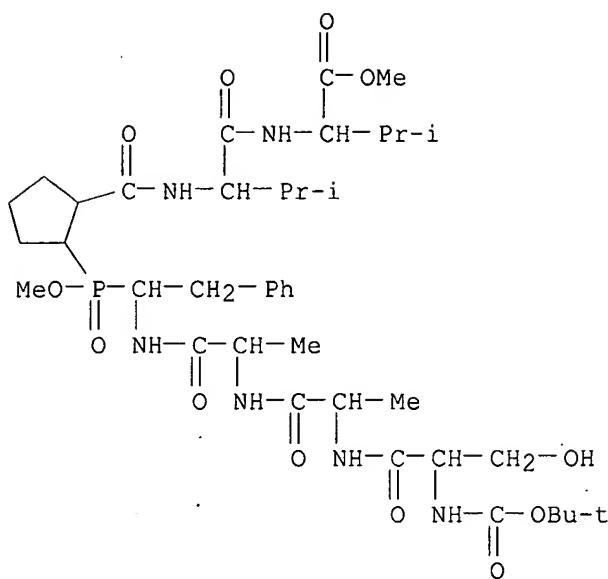
IT 126333-35-5P 128210-19-5P 128234-78-6P  
128299-07-0PRL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of, as antiviral agent)

RN 126333-35-5 HCPLUS

CN L-Valine, N-[N-[(2-[hydroxy[2-phenyl-1-[[N-(N-L-seryl-L-alanyl)-L-alanyl]amino]ethyl]phosphinyl]cyclopentyl]carbonyl]-L-valyl]-, methyl ester (9CI) (CA INDEX NAME)

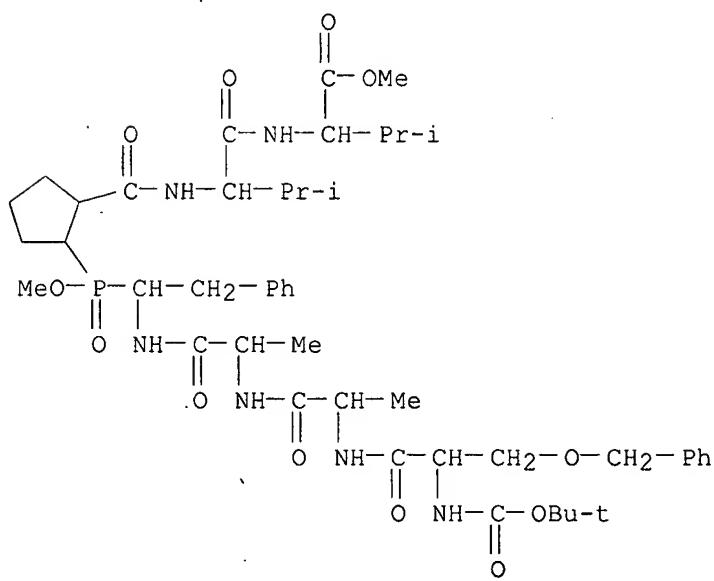
Absolute stereochemistry.

RN 128210-19-5 HCPLUS  
CN L-Valine, N-[N-[(2-[[1-[[N-[N-[(1,1-dimethylethoxy)carbonyl]-L-seryl]-L-alanyl]-L-alanyl]amino]-2-phenylethyl]methoxyphosphinyl]cyclopentyl]carbonyl]-L-valyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 128234-78-6 HCPLUS

CN L-Valine, N-[N-[[2-[[1-[[N-[N-[(1,1-dimethylethoxy)carbonyl]-O-(phenylmethyl)-L-seryl]-L-alanyl]-L-alanyl]amino]-2-phenylethyl]methoxyphosphinyl]cyclopentyl]carbonyl]-L-valyl]-, methyl ester (9CI) (CA INDEX NAME)

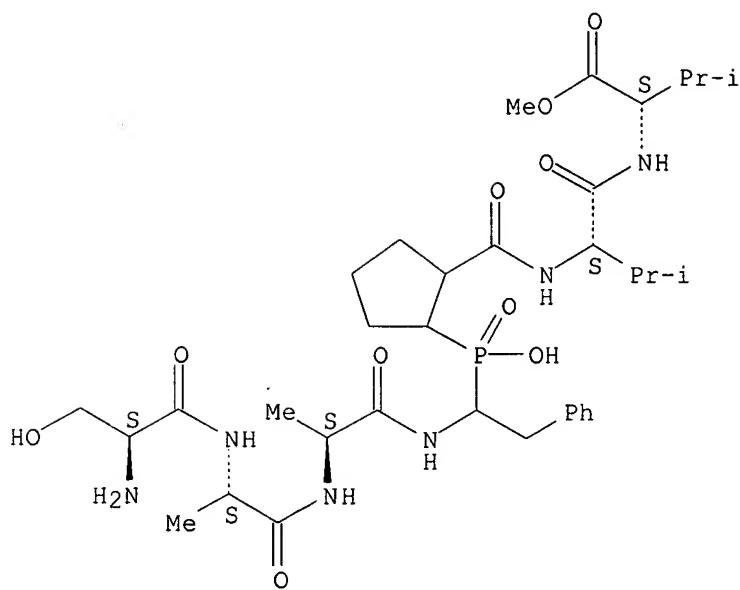


RN 128299-07-0 HCPLUS

CN L-Valine, N-[N-[[2-[hydroxy[2-phenyl-1-[[N-(N-L-seryl-L-alanyl)-L-alanyl]amino]ethyl]phosphinyl]cyclopentyl]carbonyl]-L-valyl]-, methyl ester, monohydrobromide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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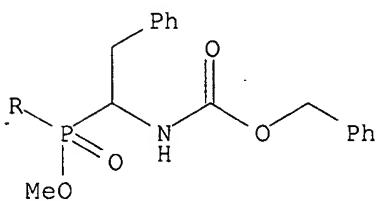
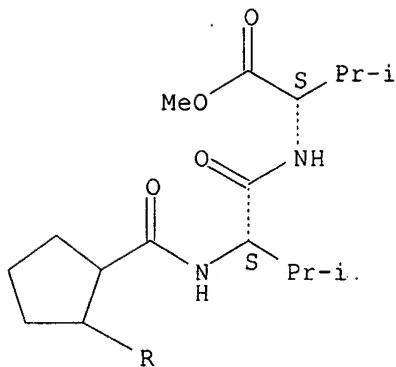


PAGE 2-A

● HBr

IT 128211-25-6P 128211-26-7P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as intermediate for antivirals)  
 RN 128211-25-6 HCPLUS  
 CN L-Valine, N-[N-[(2-[methoxy[2-phenyl-1-[(phenylmethoxy)carbonyl]amino]ethyl]phosphinyl)cyclopentyl]carbonyl]-L-valyl-, methyl ester (9CI) (CA INDEX NAME)

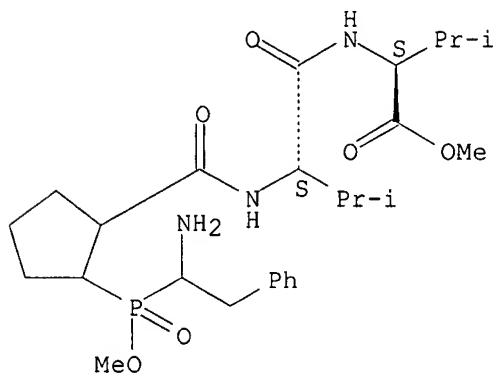
Absolute stereochemistry.



RN 128211-26-7 HCPLUS

CN L-Valine, N-[N-[(2-[(1-amino-2-phenylethyl)methoxyphosphinyl]cyclopentyl)carbonyl]-L-valyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 7 OF 9 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1990:612686 HCPLUS

DOCUMENT NUMBER: 113:212686

TITLE: Peptide analogs as human immunodeficiency virus (HIV) protease inhibitors

INVENTOR(S): Hanko, Rudolf H.; Scangos, George A.; Yoo-Warren, Heeja; Ramabhadran, Triprayar V.; Paessens, Arnold; Henning, Rolf; Tamburini, Paul Perry; Hoppe, Dieter; Hansen, Jutta; Rabe, Klaus

PATENT ASSIGNEE(S): Molecular Therapeutics, Inc., USA  
SOURCE: Eur. Pat. Appl., 73 pp.

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 361341	A2	19900404	EP 1989-117616	19890923 <--
EP 361341	A3	19910703		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
FI 8904541	A	19900329	FI 1989-4541	19890926 <--
AU 8942308	A1	19900816	AU 1989-42308	19890926 <--
AU 633017	B2	19930121		
DK 8904760	A	19900329	DK 1989-4760	19890927 <--
NO 8903834	A	19900329	NO 1989-3834	19890927 <--
ZA 8907338	A	19900725	ZA 1989-7338	19890927 <--
JP 02191243	A2	19900727	JP 1989-253683	19890928 <--
PRIORITY APPLN. INFO.:			US 1988-250472	A 19880928 <--
			US 1989-386194	A 19890801 <--

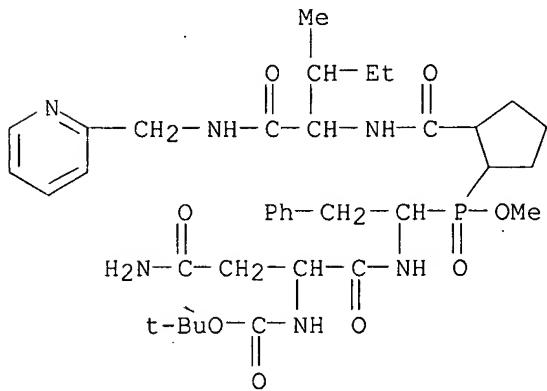
OTHER SOURCE(S): MARPAT 113:212686

IT 130371-93-6P 130371-94-7P 130371-95-8P  
 130371-96-9P 130371-97-0P 130371-98-1P  
 130371-99-2P 130372-00-8P 130372-01-9P  
 130372-02-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation of, as HIV protease inhibitor)

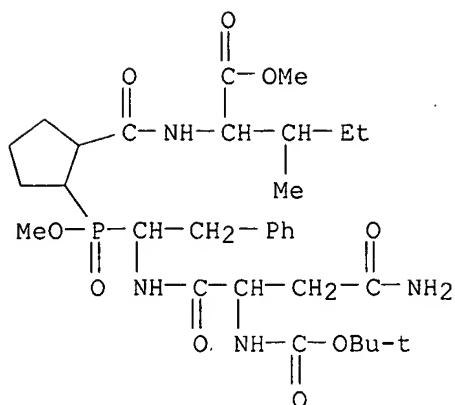
RN 130371-93-6 HCPLUS

CN Carbamic acid, [3-amino-1-[[[1-[methoxy[2-[[2-methyl-1-[(2-pyridinylmethyl)amino]carbonyl]butyl]amino]carbonyl]cyclopentyl]phosphinyl]-2-phenylethyl]amino]carbonyl]-3-oxopropyl-, 1,1-dimethylethyl ester  
 (9CI) (CA INDEX NAME)



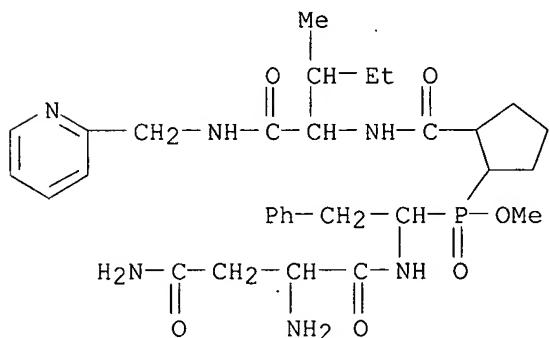
RN 130371-94-7 HCPLUS

CN 2-Oxa-5,8-diaza-3-phosphanonan-9-oic acid, 7-(2-amino-2-oxoethyl)-3-[2-[[1-(methoxycarbonyl)-2-methylbutyl]amino]carbonyl]cyclopentyl]-6-oxo-4-(phenylmethyl)-, 1,1-dimethylethyl ester, 3-oxide (9CI) (CA INDEX NAME)



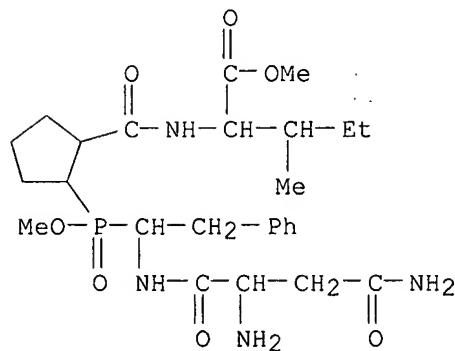
RN 130371-95-8 HCAPLUS

CN Phosphinic acid, [1-[(2,4-diamino-1,4-dioxobutyl)amino]-2-phenylethyl][2-[[[2-methyl-1-[(2-pyridinylmethyl)amino]carbonyl]butyl]amino]carbonyl]cyclopentyl-, methyl ester (9CI) (CA INDEX NAME)



RN 130371-96-9 HCAPLUS

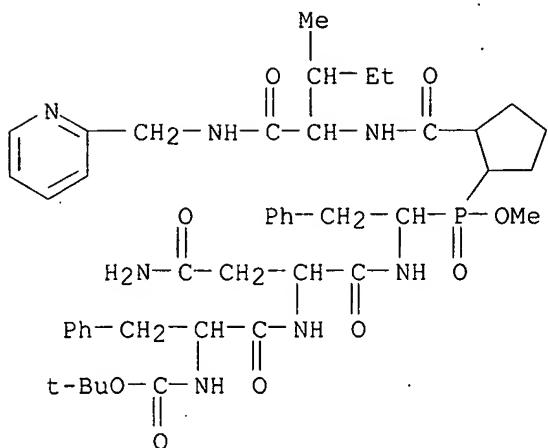
CN L-Isoleucine, N-[2-[(1-[(2,4-diamino-1,4-dioxobutyl)amino]-2-phenylethyl)methoxyphosphoryl]cyclopentyl]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 130371-97-0 HCAPLUS

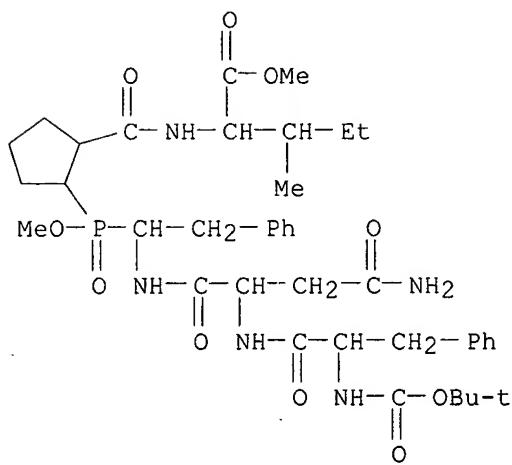
CN L-Aspartamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N1-[(1-methoxy[2-[[[2-methyl-1-[(2-pyridinylmethyl)amino]carbonyl]butyl]amino]carbonyl]butyl]amino]cyclopentyl]carbonyl]methyl ester (9CI) (CA INDEX NAME)

arbonyl]cyclopentyl]phosphinyl]-2-phenylethyl]- (9CI) (CA INDEX NAME)



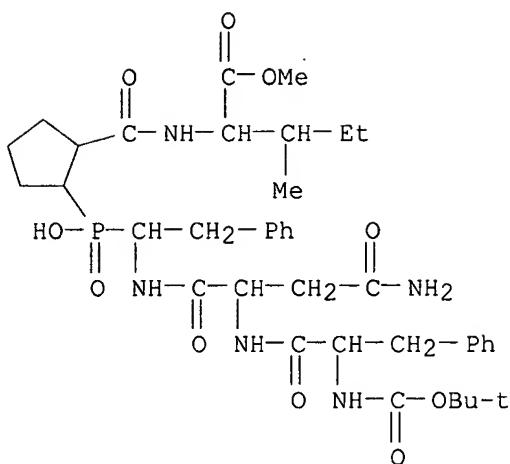
RN 130371-98-1 HCPLUS

CN L-Aspartamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N1-[1-[methoxy[2-[[1-(methoxycarbonyl)-2-methylbutyl]amino]carbonyl]cyclopentyl]phosphinyl]-2-phenylethyl]- (9CI) (CA INDEX NAME)



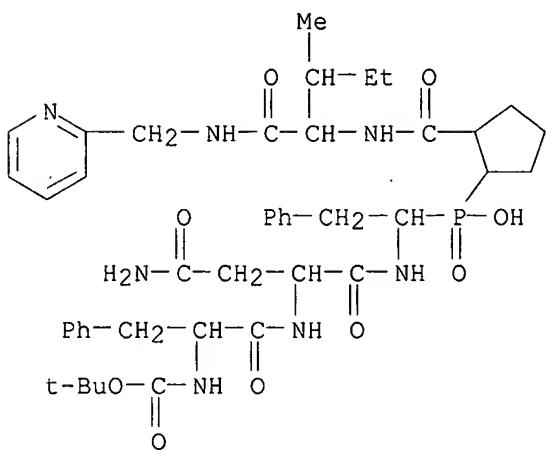
RN 130371-99-2 HCPLUS

CN L-Aspartamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N1-[1-[hydroxy[2-[[1-(methoxycarbonyl)-2-methylbutyl]amino]carbonyl]cyclopentyl]phosphinyl]-2-phenylethyl]- (9CI) (CA INDEX NAME)



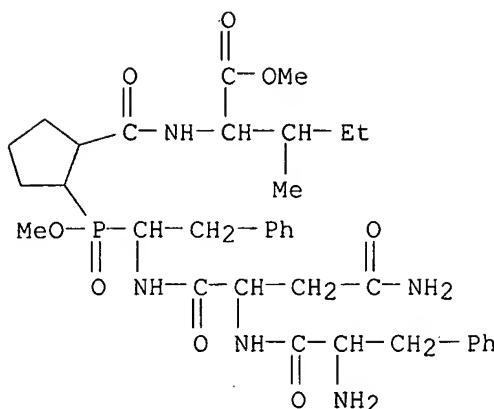
RN 130372-00-8 HCPLUS

CN L-Aspartamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N1-[1-[hydroxy[2-[[[2-methyl-1-[(2-pyridinylmethyl)amino]carbonyl]butyl]amino]carbonyl]cyclopentyl]phosphinyl]-2-phenylethyl]- (9CI) (CA INDEX NAME)



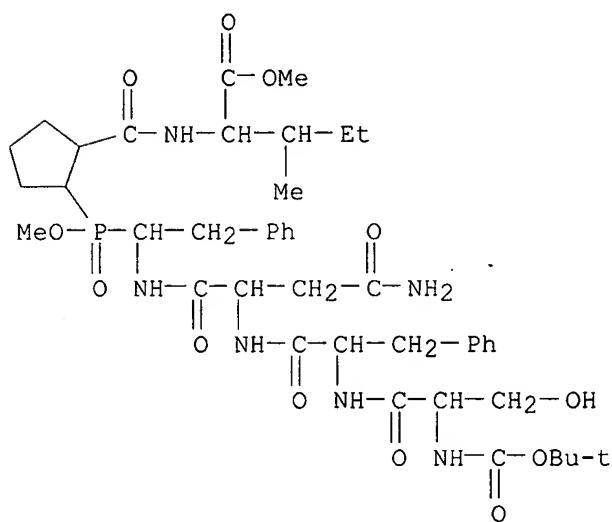
RN 130372-01-9 HCPLUS

CN L-Aspartamide, L-phenylalanyl-N1-[1-[methoxy[2-[[[1-(methoxycarbonyl)-2-methylbutyl]amino]carbonyl]cyclopentyl]phosphinyl]-2-phenylethyl]- (9CI) (CA INDEX NAME)



RN 130372-02-0 HCPLUS

CN L-Aspartamide, N-{[(1,1-dimethylethoxy)carbonyl]-L-seryl-L-phenylalanyl-N1-[1-[methoxy[2-[[1-(methoxycarbonyl)-2-methylbutyl]amino]carbonyl]cyclopentyl]phosphinyl]-2-phenylethyl}- (9CI) (CA INDEX NAME)



IT 130372-29-1P 130372-30-4P 130372-31-5P

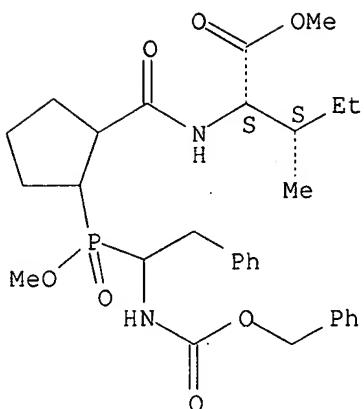
130372-32-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as HIV protease inhibitor (intermediate))

RN 130372-29-1 HCPLUS

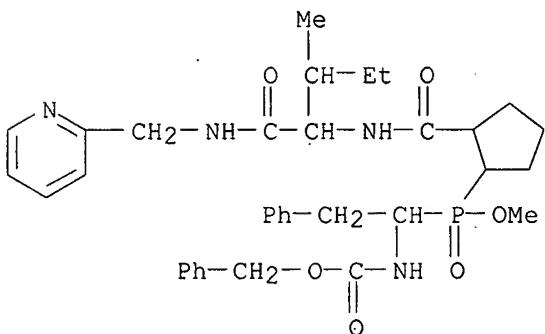
CN L-Isoleucine, N-{[2-[methoxy[2-phenyl-1-[(phenylmethoxy)carbonyl]amino]ethyl]phosphinyl]cyclopentyl}carbonyl-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



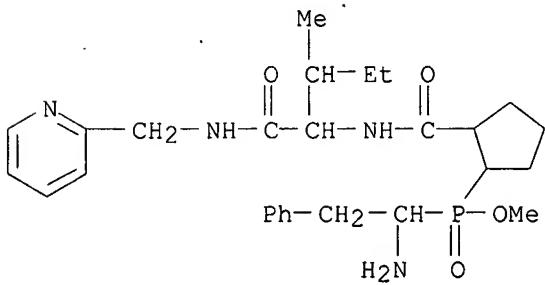
RN 130372-30-4 HCAPLUS

CN Carbamic acid, [1-[methoxy[2-[[2-methyl-1-[(2-pyridinylmethyl)amino]carbonyl]butyl]amino]carbonyl]cyclopentyl]phosphinyl]-2-phenylethyl-, phenylmethyl ester (9CI) (CA INDEX NAME)



RN 130372-31-5 HCAPLUS

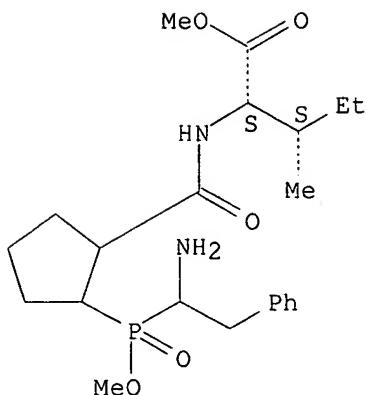
CN Phosphinic acid, (1-amino-2-phenylethyl)[2-[[2-methyl-1-[(2-pyridinylmethyl)amino]carbonyl]butyl]amino]carbonyl]cyclopentyl-, methyl ester (9CI) (CA INDEX NAME)



RN 130372-32-6 HCAPLUS

CN L-Isoleucine, N-[[2-[(1-amino-2-phenylethyl)methoxyphosphinyl]cyclopentyl]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1990:553045 HCAPLUS

DOCUMENT NUMBER: 113:153045

TITLE: Preparation of retroviral protease-inhibiting peptides and pharmaceutical compositions containing them

INVENTOR(S): Dreyer, Geoffrey Bainbridge; Huffman, William Francis; Meek, Thomas Dowling; Metcalf, Brian Walter; Moore, Michael Lee

PATENT ASSIGNEE(S): SmithKline Beckman Corp., USA

SOURCE: Eur. Pat. Appl., 118 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 352000	A2	19900124	EP 1989-306995	19890710 <--
EP 352000	A3	19910717		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE ZA 8905174 CN 1039596	A	19900328 19900214	ZA 1989-5174 CN 1989-104699 US 1988-216178 US 1989-321937	19890707 <-- 19890708 <-- A 19880708 <-- A 19890310 <--
PRIORITY APPLN. INFO.:				

OTHER SOURCE(S): MARPAT 113:153045

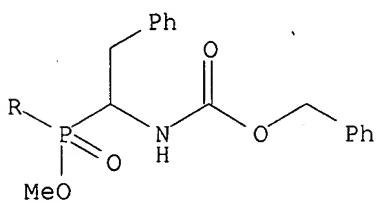
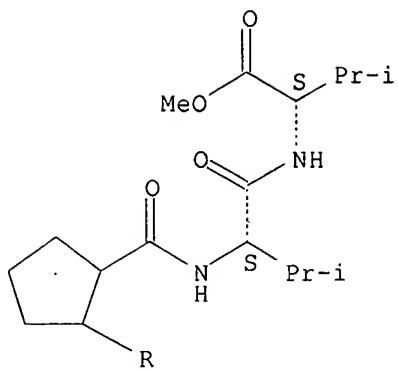
IT 128211-25-6P 128211-26-7P 128234-86-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and reaction of, in preparation of protease inhibiting peptides)

RN 128211-25-6 HCAPLUS

CN L-Valine, N-[N-[(2-{methoxy[2-phenyl-1-[(phenylmethoxy)carbonyl]amino]ethyl}phosphinyl)cyclopentyl]carbonyl]-L-valyl-, methyl ester (9CI) (CA INDEX NAME)

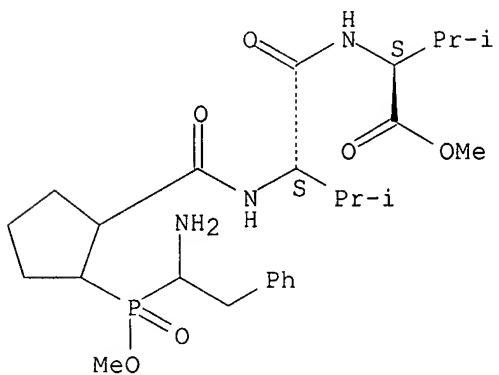
Absolute stereochemistry.



RN 128211-26-7 HCPLUS

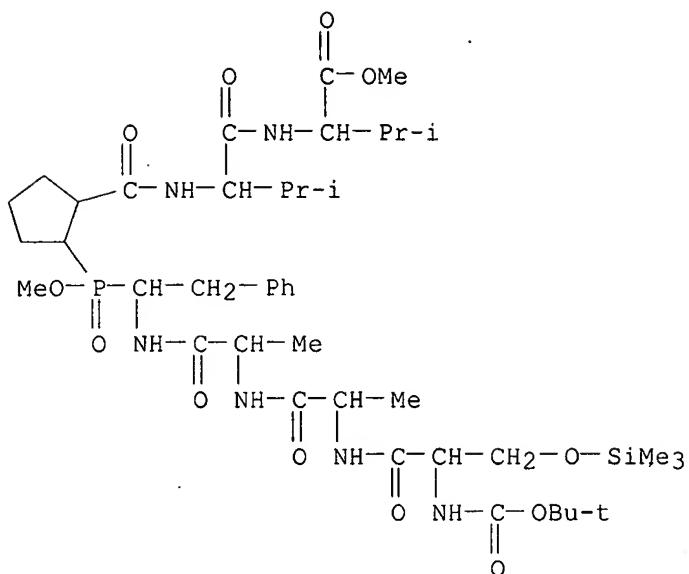
CN L-Valine, N-[N-[[2-[(1-amino-2-phenylethyl)methoxyphosphinyl]cyclopentyl]carbonyl]-L-valyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 128234-86-6 HCPLUS

CN L-Valine, N-[N-[[2-[[1-[[N-[N-[(1,1-dimethylethoxy)carbonyl]-O-(trimethylsilyl)-L-seryl]-L-alanyl]-L-alanyl]amino]-2-phenylethyl)methoxyphosphinyl]cyclopentyl]carbonyl]-L-valyl]-, methyl ester (9CI) (CA INDEX NAME)



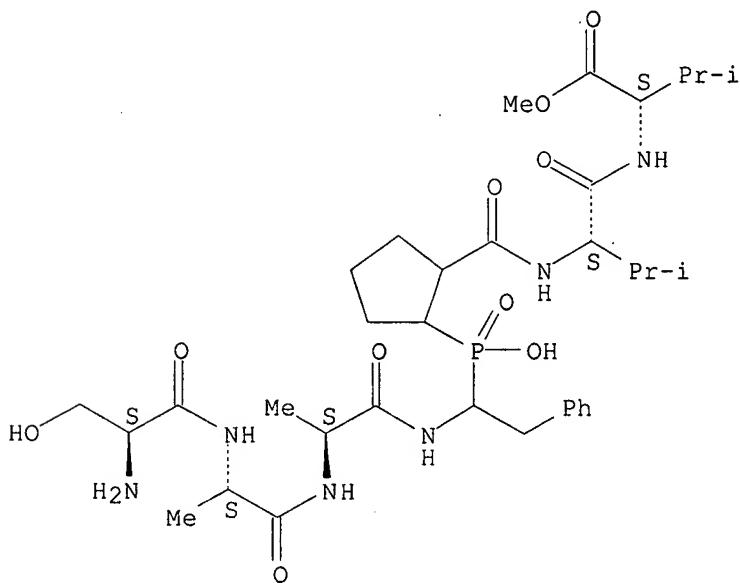
IT 126333-35-5P 128210-19-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(preparation of, as retroviral protease inhibitor)

RN 126333-35-5 HCAPLUS

CN L-Valine, N-[N-[[2-[hydroxy[2-phenyl-1-[[N-(N-L-seryl-L-alanyl)-L-alanyl]amino]ethyl]phosphinyl]cyclopentyl]carbonyl]-L-valyl]-, methyl ester (9CI) (CA INDEX NAME)

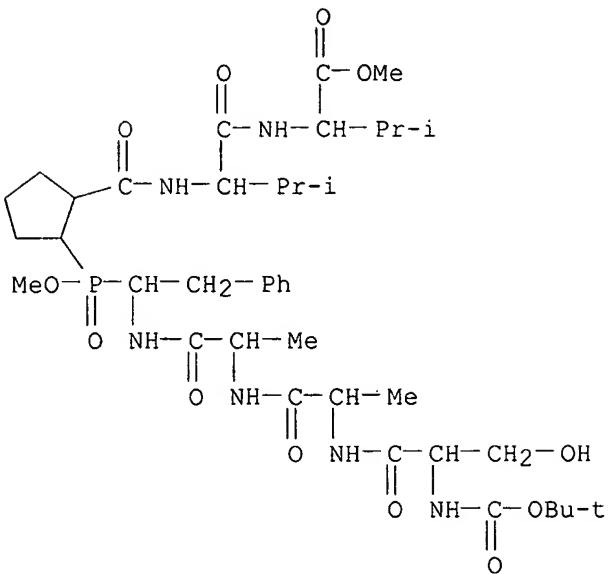
## Absolute stereochemistry.



RN 128210-19-5 HCAPLUS

CN L-Valine, N-[N-[[2-[[1-[[N-[N-[(1,1-dimethylethoxy)carbonyl]-L-seryl]-L-alanyl]-L-alanyl]amino]-2-phenylethyl]methoxyphosphinyl]cyclopentyl]carbon

yl]-L-valyl]-, methyl ester (9CI) (CA INDEX NAME)

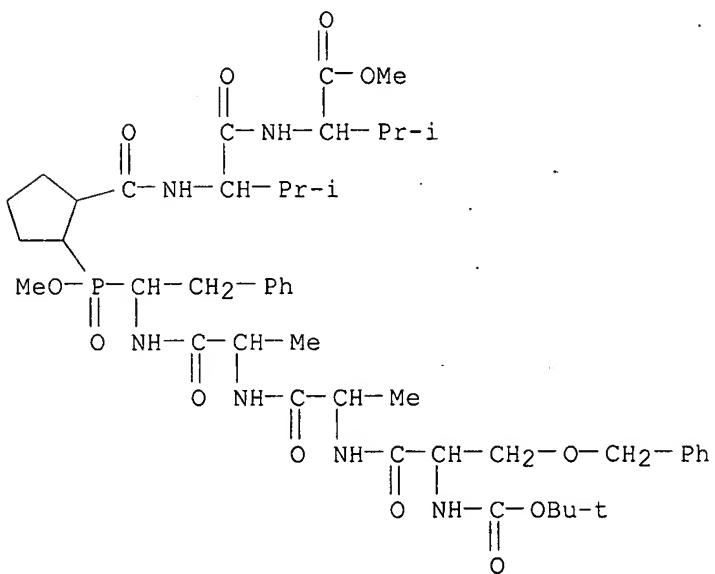


IT 128234-78-6P 128299-07-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as viral protease inhibitor)

RN 128234-78-6 HCPLUS

CN L-Valine, N-[N-[(2-[[1-[[N-[N-[(1,1-dimethylethoxy)carbonyl]-O-(phenylmethyl)-L-seryl]-L-alanyl]-L-alanyl]amino]-2-phenylethyl)methoxyphosphinyl]cyclopentyl]carbonyl]-L-valyl]-, methyl ester (9CI) (CA INDEX NAME)



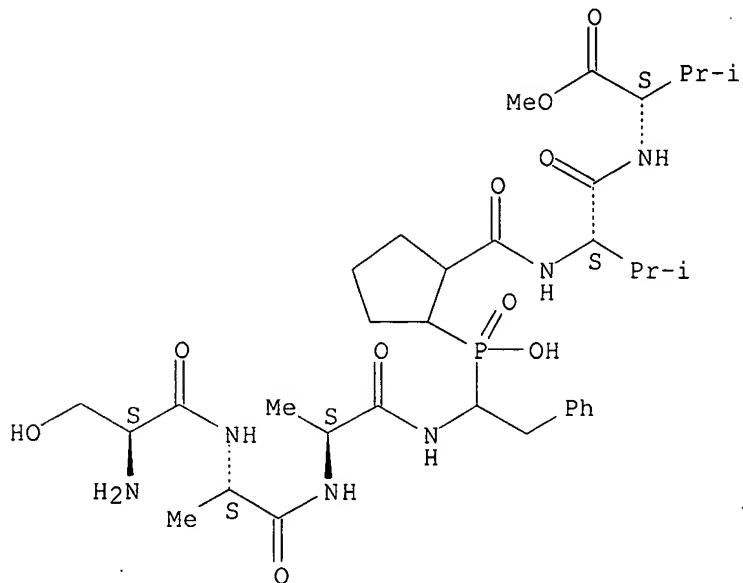
RN 128299-07-0 HCPLUS

CN L-Valine, N-[N-[(2-[[hydroxy[2-phenyl-1-[[N-(N-L-seryl-L-alanyl)-L-

alanyl]amino]ethyl]phosphinyl)cyclopentyl]carbonyl]-L-valyl]-, methyl ester, monohydrobromide (9CI) (CA INDEX NAME)

## Absolute stereochemistry.

PAGE 1-A



PAGE. 2-A

● HBr

L13 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1990:400142 HCAPLUS  
DOCUMENT NUMBER: 113:142  
TITLE: Inhibition of human immunodeficiency virus 1 protease  
in vitro: rational design of substrate analog  
inhibitors  
AUTHOR(S): Dreyer, Geoffrey B.; Metcalf, Brian W.; Tomaszek,  
Thaddeus A., Jr.; Carr, Thomas J.; Chandler, Arthur  
C., III; Hyland, Lawrence; Fakhoury, Stephen A.;  
Magaard, Victoria W.; Moore, Michael L.; et al.  
CORPORATE SOURCE: Dep. Med. Chem., Smith Kline and French Lab., King of  
Prussia, PA, 19406-0939, USA  
SOURCE: Proceedings of the National Academy of Sciences of the  
United States of America (1989), 86(24),  
9752-6  
CODEN: PNASA6; ISSN: 0027-8424  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
IT 126333-35-5DP, isomers  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and HIV-1 protease inhibiting activity of)  
RN 126333-35-5 HCAPLUS  
CN L-Valine, N-[N-[[2-[hydroxy[2-phenyl-1-[[N-(N-L-seryl-L-alanyl)-L-

alanyl]amino]ethyl]phosphinyl]cyclopentyl]carbonyl]-L-valyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

